

CLAIMS

1. Loading and unloading apparatus comprising in mutual cooperation a conveyor device adjacent a roller table, where said conveyor device and roller table are pivotably mounted on a carrying structure, which structure, in use is vertically extendable and retractable.

2. Apparatus according to claim 1 characterised in that the conveyor device is tiltable in relation to the plane of the roller table.

3. Apparatus according to claim 1 or 2 characterised in that the means for extending and retracting the structure comprises hydraulic, electrical and/or pneumatic means.

4. Apparatus according to any of claims 1 to 3 characterised in that the conveyor device is extendable, between a first retracted position and a second extended position, and that the conveying device may be operational in all positions.

5. Apparatus according to any of claims 1 to 4 characterised in that the vertically extendable and retractable structure is a double scissors structure, and that when the structure is fully retracted the height of the apparatus substantially corresponds to the collapsed scissors structure and the height of the roller table.

6. Apparatus according to any of claims 1 to 4 characterised in that the carrying structure is arranged on a base, which base is provided with wheels and optionally connection means for a secondary conveying device as well as power supply means for the apparatus, and that the roller table is arranged on a first frame which frame may be rotated in relation to a second frame, where said second frame is fixed to the upper end of the carrying structure, and that said rotation may be powered.

7. Apparatus according to any of claims 1 to 4 characterised in that the apparatus may be manipulated in all three dimensions by a user by operating switches ar-

5 ranged on a housing arranged on the conveying device or the roller table, where switches are arranged for controlling manipulation means for activating the turning action of the roller table and conveying device in relation to the carrying structure, controlling the extension/retraction and angle of the conveying device in relation to the roller table, controlling the elevation of the roller table by activating the support structure, and/or where the conveying device comprises one or more belts, control the individual relative speed of the one or more belts.

10 8. Apparatus according to claim 7 characterised in that the switches are arranged in one or more handles arranged on the housing, such that manipulation of the handle influences the switches which may activate and control all or selected manipulation means, such that the handles are comparable to joy-stick means.

15 9. Apparatus according to any of the claims 1 to 6 characterised in that one or more handles arranged on the housing are connected to a valve means for directing a drive fluid such as air, hydraulic oil or the like to actuators, which actuators power the features of the apparatus.

20 10. Loading and unloading system, comprising an apparatus according to any of claims 1 to 8, which apparatus is connected to a conveying device for conveying goods, luggage, parcels or the like wherein the conveying device comprises a plurality of conveying elements, where each conveying element comprises a chain box element in which at least one transport roller is rotatably fixed such that rollers arranged in adjacent conveying elements define the conveying device transport plane, and that
25 chain box elements of adjacent conveying elements are interconnected in such a way that one conveying element may articulate in relation to adjacent conveying elements, and that at least some of the chain box elements in the conveying device comprise drive means directly engaging and rotating the transport rollers.